Qtv:

User:

Monday, 22/09/2008 2:22:32 PM

Julie Lecoca

Process Sheet

Customer Job Number : CU-DAR001 Dart Helicopters Services

S.O. No. :

: 42200

Estimate Number

: 10089

P.O. Number This Issue

First Issue

Previous Run

: 22/09/2008

Prsht Rev.

: NC

: //

: 40397

Type

: PURCHASED PARTS

Part Number

Drawing Name

: D312123

: E

: BEARING

Drawing Number

: D3121 REV E : N/A

Project Number

Drawing Revision

Material

Due Date

: 29/09/2008

Um:

Each

Written By

Checked & Approved By

Comment

04.02.19

KJ/DS New Issue

Est Rev:B ECN 1060 07-11-12 DD verified by:EC

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

CJ8109122

1.0

PG

PURCHASING

Comment: PURCHASING

6900ZZ

Issue P/O: 7216

Bearing as per Dwg D3121

Possible Supplier: SKF P/N: 61900-2Z or KML P/N: 6900-ZZ

Material release note is required

Bearing



Comment: Qtv.:

1.0000 Each(s)/Unit Total: 250.0000 Each(s)

Bearing

3.0 PACKAGING 1 PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Receive & Inspect for Transit Damage Ensure Material Release Note is attached

4.0

2.0

QC6

Comment: DIMENSIONAL CHECK

Inspect diimensions as per Dwg D3121 and attached certfication Dwg Rev

5.0

PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Identify and Stock Location:

Dart Aerospace Ltd

	- oppos								
W/O:			WC	ORK ORDER CHANGE	S				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
<u>. </u>									
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
	R	esolution:	Disposition	n:	QA: N/C C	osed:		Date: _	
NCR:		V	VORK ORDI	ER NON-CONFORMA	NCE (NCF	R)			
DATE	OTED	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sect	ion C	Chief Eng	QC Inspector

NOTE: Date & initial all entries

Date:

Monday, 22/09/2008 2:22:32 PM

User:

Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BEARING

Job Number: 42200

Part Number: D312123

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC21

FINAL INSPECTION/W/O RELEASE



08/09/30 df

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Dart Aerospace Ltd

W/O:			WO	RK ORDER CHANGE	S					
DATE STEP		PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
									·	
Part No		PAR #:	Fault Categ	gory:	NCR: Yes	No DQ	A :	Date:		
	R	esolution:	Disposition	n:	QA: N/C CI	osed:		Date: _		
NCR:		•	WORK ORDE	R NON-CONFORMA	NCE (NCF	1)				
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval	
DAIL	SILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Section	on C	Chief Eng	QC Inspector	
									P 0	
									: 	

NOTE: Date & initial all entries



DESIGN DRAWN BY			DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHEC	(ED_	APPROVED.	DRAWING NO. REV. E		
	#	1	D3121 SHEET 1 OF 10		
DATE		•	TITLE SCALE		
07.1	1.07		BRACKET ASSEMBLY 1:2		
Α		02.04.15	NEW ISSUE		
В		03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146		
C		04.02.17	ADD CLEARANCE; USE -241 BEARING		
D		06.05.17	D3121-25 CAP WAS 1.024, NOW 1.000		



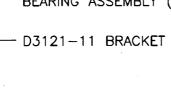
D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1)

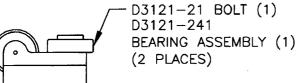
E

D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)

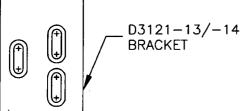
07.11.07 | ADD TOLERANCE TO 0.032 (DETAIL B)

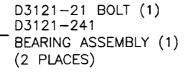




D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)

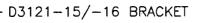




D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-35/-36)

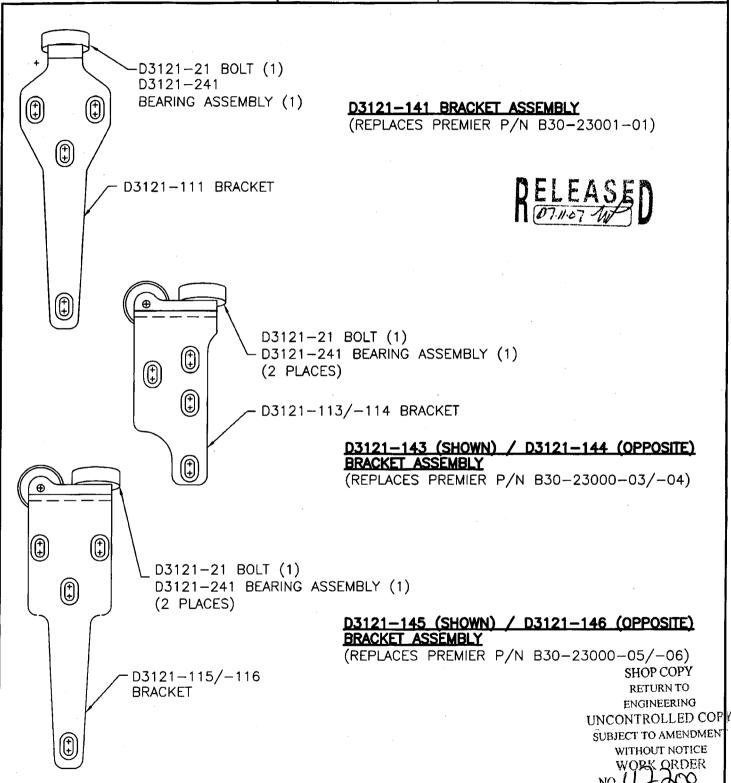
SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE



Copyright © 2002 by DART AEROSPACE LTD

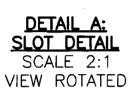


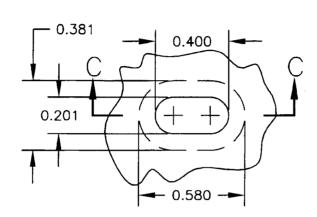
DESIGN	DRAWN BY	DART AEROSPA HAWKESBURY, ONTARIO	
CHECKED	APPROVED	DRAWING NO.	REV. E
41-		D3121	SHEET 2 OF 10
DATE		TITLE	SCALE
07.11.07	•	BRACKET ASSEMBLY	1:2

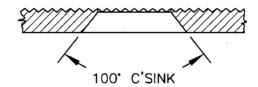




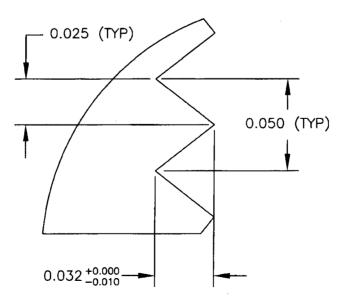
	DESIGN	DRAWN BY	DART AEROS HAWKESBURY, ON	
·	CHECKED	APPROVED,	DRAWING NO.	REV. E
	4	-#	D3121	SHEET 3 OF 10
	DATE		TITLE	SCALE
	07.11.07		BRACKET ASSEMBLY	1:1







<u>DETAIL B:</u> RIDGE DETAIL PARTIAL SECTION **SCALE 1:20**

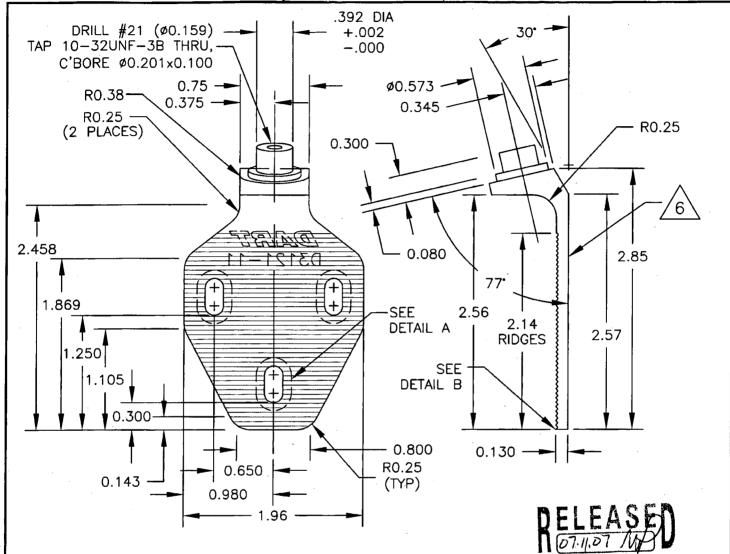


SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

NO.



DESIGN	DRAWN BY	DART AEROSP. HAWKESBURY, ONTARI	
CHECKED _	APPROVED,	DRAWING NO.	REV. E
4	-#	D3121	SHEET 4 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:1



D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

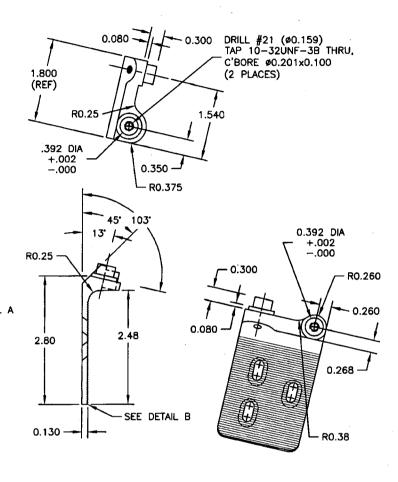
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N & LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

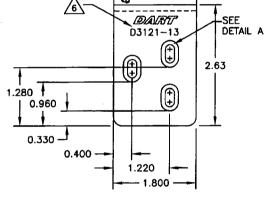
SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT



DESIGN DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED.	DRAWING NO.	REV. E	
4	-#	D3121	SHEET 5 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	







0

D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)

MIN ULTIMATE TENSILE STRENGTH = 150 ksi MIN YIELD TENSILE STRENGTH = 100 ksi

- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N & LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

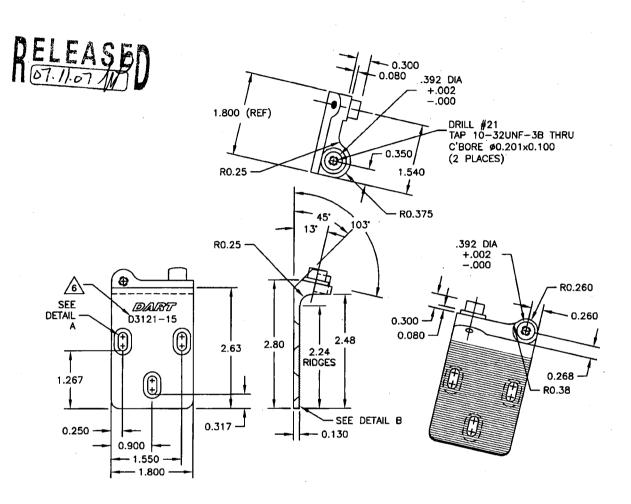
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE

NO WORK ORDER

Copyright © 2002 by DART AEROSPACE LTD



1	DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
	CHECKED	APPROVED	DRAWING NO.		REV. E
	91		D3121	SHE	ET 6 OF 10
	DATE		TITLE		SCALE
	07.11.07		BRACKET	ASSEMBLY	1:2



D3121-15 BRACKET (SHOWN) D3121-16 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N AND LOGO AS SHOWN

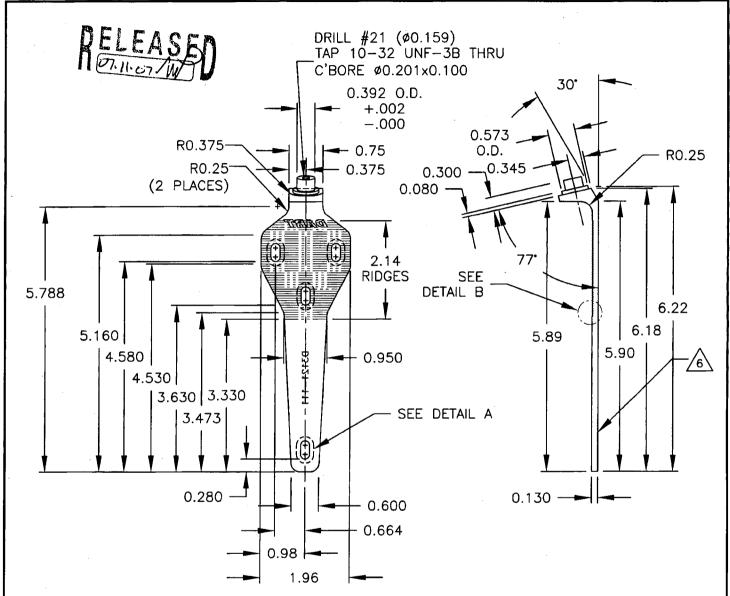
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COP SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER



DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED	DRAWING NO.	REV. E	
917		D3121	SHEET 7 OF 10	
DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	



D3121-111 BRACKET

- 1) REPLACES PREMIER P/N B32-23001-11
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)

MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED

4) ALL DIMENSIONS ARE IN INCHES

5) BREAK ALL SHARP EDGES 0.005 TO 0.015

6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN

7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

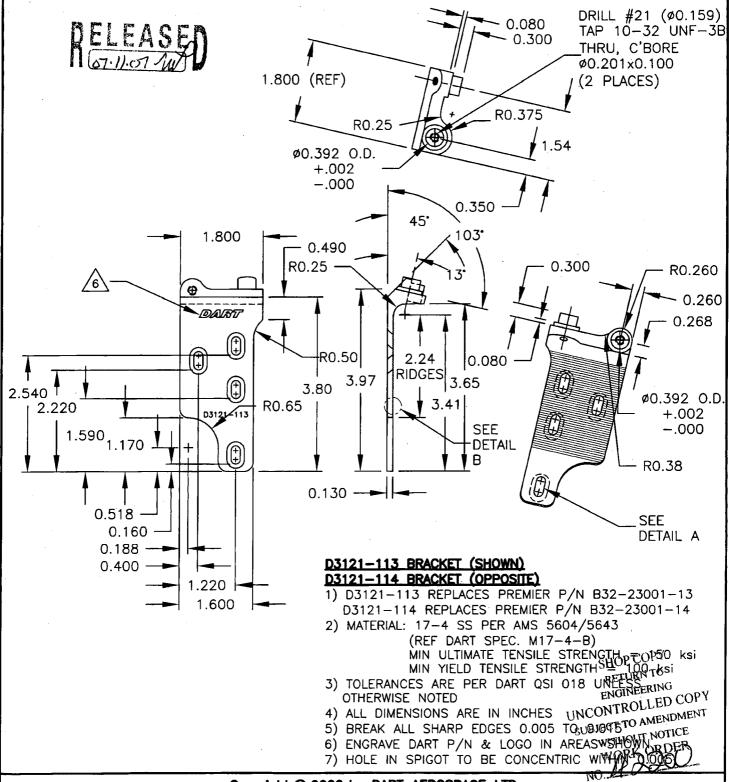
SHOP COPY RETURN TO ENGINEERING

UNCONTROLLED COPY

SUBJECT TO AMENDMENT



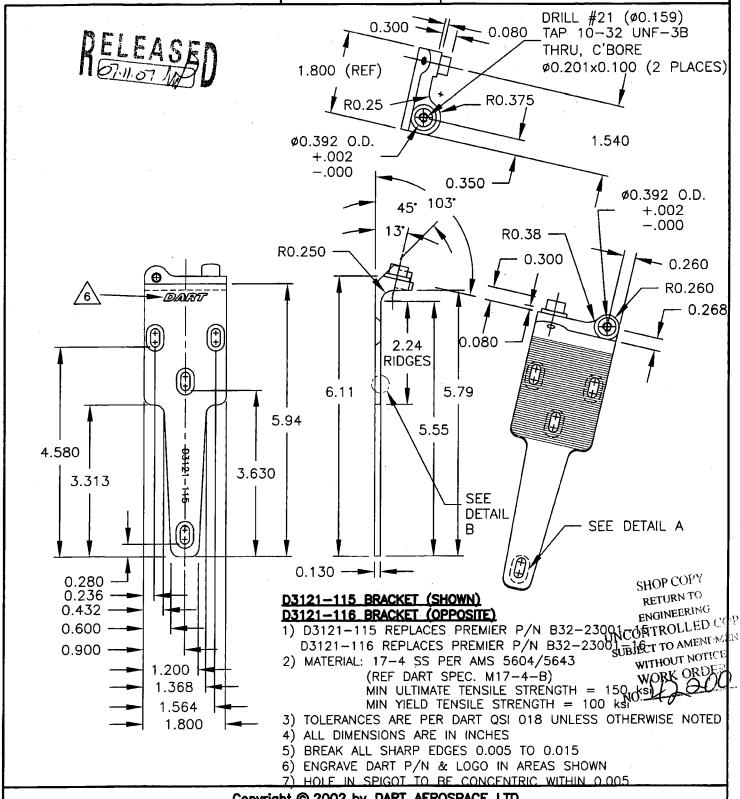
DESIGN	DRAWN BY	DART AEROS HAWKESBURY, ON	
CHECKED _	APPROVED	DRAWING NO.	REV. E
4	-#	D3121	SHEET 8 OF 10
DATE		TITLE	SCALE
07.11.07	•	BRACKET ASSEMBLY	1:2



Copyright @ 2002 by DART AEROSPACE LTD



DESIGN	DRAWN BY	DART AERO	
CHECKED	APPROVED,	DRAWING NO.	REV. E
4	- -	D3121	SHEET 9 OF 10
DATE		TITLE	SCALE
07.11.07		BRACKET ASSEMBLY	1:2



Copyright @ 2002 by DART AEROSPACE LTD



[DESIGN	DRAWN BY		SPACE LTD ONTARIO, CANADA
T	CHECKED	APPROVED /	DRAWING NO.	REV. E
	#	#	D3121	SHEET 10 OF 10
T	DATE		TITLE	SCALE
- (07.11.07		BRACKET ASSEMBLY	1:1

D3121-21 BOLT (SCALE 1:1)

OTHERWISE NOTED

4) ALL DIMENSIONS ARE IN INCHES

1) MATERIAL: AISI 303 SS HEX, ANNEALED

3) TOLERANCES ARE PER DART QSI 018 UNLESS

5) BREAK ALL SHARP EDGES 0.005 TO 0.015

0.230±0.001 -

TAP 10-32

UNF-3A

0.050 TO 0.060

- 0.080

(REF DART SPEC. M303H0.500)

0.315

∕D\ 1.000 0.838

R0.063

±0.002

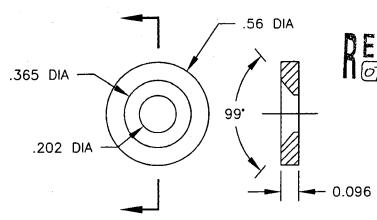
R0.010

0.865

±0.001

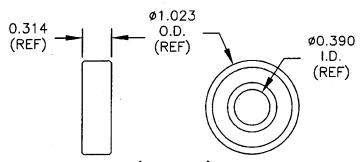
0.375

2) FINISH: NONE



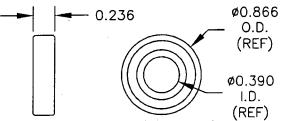
D3121-17 WASHER (SCALE 2:1)

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCÈS ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-19 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES

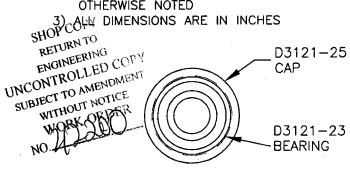


D3121-23 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z OR KML P/N 6900-ZZ
-) ALL DIMENSIONS ARE IN INCHES

D3121-25 CAP (SCALE 1:1)

- 1) MATERIAL: DELRIN ROD, Ø1.25
 - (REF DART SPEC. M-DELRIN-R1.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



D3121-241 BEARING ASSEBLY (SCALE 1:1)

Copyright @ 2002 by DART AEROSPACE LTD



651 8 R101974094

SOLD TO: DART AEROSPACE LTD.
- HONE AV. BENEESEN STREET CHARAGE APPLEY 8: MANATONE

GENERAL BEARING SERVICE

www.gbs.ca

386 MAIN ST E, HANKEBBURY, ONTARIO KGA 168 (613) 632-9914 ORDER DATE: SEP 26, 2008

PST LICENCE: 6122-520

.,,,	CHIL ATA	2	All Committee of the Co	10 mg - 10 mg - 10 mg		politica de Company	16 . 41 9	- market and a second second	San Francisco	1 D.	ひししむま		the same of the same of the same of	-
.,,	31.174	****	(A) 1 A (A)			and the state of t			3 31 A	The same of the same	Commence of the Party of the Pa	+ training to the said of		铲 打炸性
		And a least of the second recording	Andrew Street	F 15 17 15	TTIME			And the second second second second	Marie Ma Marie Marie Ma			524	198,	4 T
77	THE RESERVE		11 5 0	market and the same of the sam	Andread of the last of the las	A STATE OF THE PARTY OF THE PAR	7. 39.	4.000		Trible Same	4.49	Section 1		
		The second section (see a second seco	444				i wa		1940	7	A 89 1	rigin (Marija)	293.	40
٠	A - 1	1. A. C.	a ball	BEARING			1	1	60	1900 温泉之后。	4.2 34.4.1	- La	122,	25
	6600-22		The same of the sa	we want of the O' to be "	Carlotte and the second	19 May 1 18 May 1	2	a section of the section	4E		4.89			
				预约447366		"我们,我们都会说。"	1 /25		Said .		4.39	1	1,100.	Signal 1 c.
. 0	1000-17	Since the same of	PALL.	BEFARING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 (N) (1 4 (N) 18	ો (૨૨૬	1 1 3 1 4 1	225	I and million	1.000 N. 10 10 10 10 10 10 10 10 10 10 10 10 10	V & C T	. 63.	M
	6900-ZZ	新ルルの動物で動				1994 AS T. T.	A Charles		364	A Company		Section of the sectio	300	· gillen
	ng ngana salah Saharanda 2 t	\$8	BALL	BEARING			7	1.1			1			11.

porteins si to Mile 6/0506-M

08/04/26

REDEX FERRILLE AND A SECRETARIAN

TI BE COMPUTER PRINCEPTO BE, VALID. E. & O.E.